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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/598,943	09/15/2006	Peng Fei Fu	71,038-102	2351
27305 7590 06/19/2009 HOWARD & HOWARD ATTORNEYS PLLC 450 West Fourth Street			EXAMINER	
			NAKARANI, DHIRAJLAL S	
Royal Oak, MI 48067			ART UNIT	PAPER NUMBER
			1794	
			MAIL DATE	DELIVERY MODE
			06/19/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/598,943	FU ET AL.			
Office Action Summary	Examiner	Art Unit			
	D. S. Nakarani	1794			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be time fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>15 Security</u> This action is FINAL . 2b) ☑ This Since this application is in condition for allowant closed in accordance with the practice under Expression.	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-16,18-24 and 35-40 is/are pending i 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-16,18-24 and 35-37 is/are rejected. 7) ☐ Claim(s) 38-40 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examiner 10) ☐ The drawing(s) filed on 15 September 2006 is/a Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction 11) ☐ The oath or declaration is objected to by the Examiner	vn from consideration. relection requirement. r. ure: a)⊠ accepted or b)□ objected or by the consideration of the drawing(s) is objected or is required if the drawing(s) is objected or is required if the drawing(s) is objected or is required if the drawing(s) is objected.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
		, total or 10			
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 11/16/2007.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate			

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DETAILED ACTION

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 21-23 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. The use of the material composition is a non-statutory subject matter.

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claim 16 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 16, line 2, the abbreviation "PGMEA" and "PGME" renders claims indefinite. It is not clear from the specification meaning of these abbreviations. Applicants are requested to write these abbreviations in unabbreviated form. Applicants are also requested to amend specification, at first occurrence of these abbreviations without introducing new matter, in unabbreviated form.

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for

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patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 7. Claims 1-13, 15, 18, 24, and 35-37 are rejected under 35 U.S.C. 102(e) as being anticipated by Dhal et al (U. S. Patent Application US 2003/0157414 A1).

Dhal et al disclose a composition comprising: a difunctional epoxide monomer, a crosslinker tetrafunctional epoxide monomer, a silicone fluid as binder and a cationic photoinitiator. The difunctional epoxide monomer and the crosslinker tetrafunctional monomers are the same as claimed in the present claims 6 and 10 respectively (Example 4). The silicone

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fluid is considered as a viscosity reducing non-reactive diluent. Dhal et al disclose cured holographic recording medium between two glass slides. The holographic recording medium is considered as a resist layer.

8. Claims 14, 19 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dhal et al (U. S. Patent Application Publication US 2003/0157414 A1).

Dhal et al, which has been discussed above in paragraph 6, fail to disclose claimed ratio of first component, i.e. difunctional epoxide monomer, and crosslinker, i.e. tetrafunctional epoxide monomer, and claimed application methods.

However given the teaching of Dhal et al, a person of ordinary skill in the art at the time of this invention made would have found it obvious to vary ratio depending on desired crosslink density and would have found it obvious to use desired application method for desired coating.

9. Claims 38-40 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 38-40 deemed allowable over the art of record. The art of record does not teach or suggest under coat.

10. Receipt of Information Disclosure Statement filed November 16, 2007 is acknowledged and all recited documents have been made of record. Documents WO 99/26112 and WO 92/12183 are not received. Therefore these documents have been considered to the extent of category shown in the International Search report dated June 29, 2007.

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11. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to D. S. Nakarani whose telephone number is (571) 272-1512. The

examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Callie E. Shosho can be reached on (571) 272-1123. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you

would like assistance from a USPTO Customer Service Representative or access to the

automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/D. S. Nakarani/ Primary Examiner, Art Unit 1794

June 18, 2009.

DSN